



SEQUENCE LISTING

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<120> Polymorphisms in the human gene for the multidrug resistance-associated protein 1 (MRP-1) and their use in diagnostic and therapeutic applications

<130> VOS-42 CON

<140>US 10/627,253
<141>2003-24-07

<150> WO 02/059142 A2
<151> 2002-01-25
<150> EP 01 10 1651.6
<151> 2001-01-26

<160> 405

<170> PatentIn Ver. 2.1

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<223> /note="Description of Artificial DNA Sequence: sequence of table 2"

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<210> 294
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<223> /note="Description of Artificial DNA Sequence: sequence of table 2"

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<223> /note="Description of Artificial DNA Sequence: sequence of table 2"

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<223> /note="Description of Artificial DNA Sequence: sequence of table 2"

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<210> 302
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21

<210> 303

<211> 21

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<223> /note="Description of Artificial DNA Sequence: sequence of table 2"

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21

<210> 304

<211> 21

<212> DNA

<213> Artificial DNA Sequence

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<223> /note="Description of Artificial DNA Sequence: sequence of table 2"

<400> 304

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21

<210> 305

<211> 21

<212> DNA

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<400> 305

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21

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<211> 21

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<223> /note="Description of Artificial DNA Sequence: sequence of table 2"

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<210> 307
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<223> /note="Description of Artificial DNA Sequence: sequence of table 2"

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<210> 308
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<220>
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<210> 309
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<223> /note="Description of Artificial DNA Sequence: sequence of table 2"

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<210> 310
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<213> Artificial DNA Sequence

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<223> /note="Description of Artificial DNA Sequence: sequence of table 2"

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21

<210> 311

<211> 21

<212> DNA

<213> Artificial DNA Sequence

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<221> source

<223> /note="Description of Artificial DNA Sequence: sequence of table 2"

<400> 311

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21

<210> 312

<211> 21

<212> DNA

<213> Artificial DNA Sequence

<220>

<221> source

<223> /note="Description of Artificial DNA Sequence: sequence of table 2"

<400> 312

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21

<210> 313

<211> 21

<212> DNA

<213> Artificial DNA Sequence

<220>

<221> source

<223> /note="Description of Artificial DNA Sequence: sequence of table 2"

<220>

<223> s=g or c

<400> 313

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21

<210> 314

<211> 21
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 <220>
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 <400> 314
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<210> 315
 <211> 21
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 <220>
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<210> 316
 <211> 21
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 <223> /note="Description of Artificial DNA Sequence: sequence of
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<210> 317
 <211> 21
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 <400> 317
 tgtgaccaca gatgagtgtg t 21

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<210> 318
<211> 21
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<220>
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<223> /note="Description of Artificial DNA Sequence: sequence of
table 2"

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<210> 319
<211> 21
<212> DNA
<213> Artificial DNA Sequence

<220>
<221> source

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table 2"

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<210> 320
<211> 21
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<213> Artificial DNA Sequence

<220>
<221> source

<223> /note="Description of Artificial DNA Sequence: sequence of
table 2"

<220>
<223> y=c or t

<400> 320
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<210> 321
<211> 21
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<220>
<221> source

<223> /note="Description of Artificial DNA Sequence: sequence of
table 2"

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<400> 321
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<210> 322
<211> 21
<212> DNA
<213> Artificial DNA Sequence

<220>
<221> source

<223> /note="Description of Artificial DNA Sequence: sequence of table 2"

<400> 322
acacactcat ttgtggtcac a 21

<210> 323
<211> 21
<212> DNA
<213> Artificial DNA Sequence

<220>
<221> source

<223> /note="Description of Artificial DNA Sequence: sequence of G57998T (exon 10, Arg433Ser)"

<220>
<221> CDS
<222> (3)..(20)

<400> 323
ac gct cag agt ttc atg gac t 21
Ala Gln Ser Phe Met Asp
1 5

<210> 324
<211> 6
<212> PRT
<213> Artificial Protein Sequence

<220>
<221> source

<223> /note="Description of Artificial Protein Sequence: sequence of G57998T (exon 10, Arg433Ser)"

<400> 324
Ala Gln Ser Phe Met Asp
1 5

<210> 325
<211> 21
<212> DNA
<213> Artificial DNA Sequence

<220>

<221> source

<223> /note="Description of Artificial DNA Sequence: sequence of G27258A (exon 17, Arg723Gln)"

<220>

<221> CDS

<222> (1)..(21)

<400> 325

gat tct ctc caa gaa aac atc

21

Asp Ser Leu Gln Glu Asn Ile

1

5

<210> 326

<211> 7

<212> PRT

<213> Artificial Protein Sequence

<220>

<221> source

<223> /note="Description of Artificial Protein Sequence: sequence of G27258A (exon 17, Arg723Gln)"

<400> 326

Asp Ser Leu Gln Glu Asn Ile

1

5

<210> 327

<211> 21

<212> DNA

<213> Artificial DNA Sequence

<220>

<221> source

<223> /note="Description of Artificial DNA Sequence: sequence of T249G (exon 8, Phe329Cys)"

<220>

<221> CDS

<222> (1)..(21)

<400> 327

ctc atg agc tgc ttc ttc aag

21

Leu Met Ser Cys Phe Phe Lys

1

5

<210> 328

<211> 7

<212> PRT

<213> Artificial Protein Sequence

<220>

<221> source

<223> /note="Description of Artificial Protein Sequence: sequence of T249G (exon 8, Phe329Cys)"

<400> 328
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 1 5

<210> 329
 <211> 20
 <212> DNA
 <213> Artificial DNA Sequence

<220>
 <221> source

<223> /note="Description of Artificial DNA Sequence: sequence of table 3"

<400> 329
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<210> 330
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 <213> Artificial DNA Sequence

<220>
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<223> /note="Description of Artificial DNA Sequence: sequence of table 3"

<400> 330
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<210> 331
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<220>
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<223> /note="Description of Artificial DNA Sequence: sequence of table 3"

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<210> 332
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<220>

<221> source

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tgggggtgggg atggcgcggg g 21

<210> 334
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<220>

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<223> /note="Description of Artificial DNA Sequence: sequence of table 3"

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<210> 335
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<220>

<221> source

<223> /note="Description of Artificial DNA Sequence: sequence of table 3"

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<210> 336
<211> 21

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<212> DNA
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<220>
<221> source

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21

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table 3"

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22

<210> 338
<211> 22
<212> DNA
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<220>
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<223> /note="Description of Artificial DNA Sequence: sequence of
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<210> 339
<211> 22
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22

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<220>
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<210> 341
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<220>
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<223> /note="Description of Artificial DNA Sequence: sequence of table 3"

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21

<210> 342
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<223> /note="Description of Artificial DNA Sequence: sequence of table 3"

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21

<210> 343
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<223> /note="Description of Artificial DNA Sequence: sequence of table 3"

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21

<210> 344

<211> 21

<212> DNA

<213> Artificial DNA Sequence

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<221> source

<223> /note="Description of Artificial DNA Sequence: sequence of table 3"

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<223> y = c or t

<400> 344

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21

<210> 345

<211> 21

<212> DNA

<213> Artificial DNA Sequence

<220>

<221> source

<223> /note="Description of Artificial DNA Sequence: sequence of table 3"

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<210> 346

<211> 21

<212> DNA

<213> Artificial DNA Sequence

<220>

<221> source

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<210> 347

<211> 21

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<213> Artificial DNA Sequence

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<220>

<223> r = g or a

<400> 347

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21

<210> 348

<211> 21

<212> DNA

<213> Artificial DNA Sequence

<220>

<221> source

<223> /note="Description of Artificial DNA Sequence: sequence of table 3"

<220>

<223> y = c or t

<400> 348

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21

<210> 349

<211> 21

<212> DNA

<213> Artificial DNA Sequence

<220>

<221> source

<223> /note="Description of Artificial DNA Sequence: sequence of table 3"

<400> 349

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21

<210> 350

<211> 21

<212> DNA

<213> Artificial DNA Sequence

<220>

<221> source

<223> /note="Description of Artificial DNA Sequence: sequence of table 3"

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21

<210> 351

<211> 21

<212> DNA

<213> Artificial DNA Sequence

<220>
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 <210> 352
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 <210> 353
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 <210> 354
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 <400> 354
 accaagcact gcgccaccca gc 22

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<210> 355
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<220>
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<223> /note="Description of Artificial DNA Sequence: sequence of
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21

<210> 356
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<223> /note="Description of Artificial DNA Sequence: sequence of
table 3"

<220>
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<400> 356
accaagcact gygccaccca gc
22

<210> 357
<211> 20
<212> DNA
<213> Artificial DNA Sequence

<220>
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<223> /note="Description of Artificial DNA Sequence: sequence of
table 3"

<400> 357
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20

<210> 358
<211> 20
<212> DNA
<213> Artificial DNA Sequence

<220>
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<223> /note="Description of Artificial DNA Sequence: sequence of
table 3"

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<210> 359
<211> 21
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<223> /note="Description of Artificial DNA Sequence: sequence of table 3"

<220>
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<210> 360
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<220>
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<223> /note="Description of Artificial DNA Sequence: sequence of table 3"

<220>
<223> n = cac cgg gcg gcg gg or deleted

<400> 360
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<210> 361
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<213> Artificial DNA Sequence

<220>
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<223> /note="Description of Artificial DNA Sequence: sequence of table 3"

<400> 361
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<210> 362
<211> 56
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<213> Artificial DNA Sequence

<220>
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<223> /note="Description of Artificial DNA Sequence: sequence of table 3"

<400> 362
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<210> 363
<211> 57
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<213> Artificial DNA Sequence

<220>
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<223> /note="Description of Artificial DNA Sequence: sequence of table 3"

<220>
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<210> 364
<211> 57
<212> DNA
<213> Artificial DNA Sequence

<220>
<221> source

<223> /note="Description of Artificial DNA Sequence: sequence of table 3"

<220>
<223> n = ggc or deleted

<400> 364
CGCTAGCGCT nGGCGGCGGC GGC GGCGGCG GCGGCGGCGG CGGCGGCGGC GCAGGGA 57

<210> 365
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<220>
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<223> /note="Description of Artificial DNA Sequence: sequence of table 3"

<400> 365
tccttgcgcc gccgccgccg ccgccgccgc cgcgcgcgcc gccagcgcta gcg 53

<210> 366
<211> 53
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<213> Artificial DNA Sequence

<220>

<221> source

<223> /note="Description of Artificial DNA Sequence: sequence of table 3"

<400> 366

cgctagcgct ggcggcggcg gcggcggcgg cggcggcggc ggcggcgag gga 53

<210> 367

<211> 54

<212> DNA

<213> Artificial DNA Sequence

<220>

<221> source

<223> /note="Description of Artificial DNA Sequence: sequence of table 3"

<220>

<223> n = gcc gcc or deleted

<400> 367

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<210> 368

<211> 54

<212> DNA

<213> Artificial DNA Sequence

<220>

<221> source

<223> /note="Description of Artificial DNA Sequence: sequence of table 3"

<220>

<223> n = ggc ggc or deleted

<400> 368

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<210> 369

<211> 50

<212> DNA

<213> Artificial DNA Sequence

<220>

<221> source

<223> /note="Description of Artificial DNA Sequence: sequence of table 3"

<400> 369

tccctgcgcc gccgccgcc cgcgccgc cgcgccgcc agcgctagcg 50

<210> 370
 <211> 50
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 <213> Artificial DNA Sequence

<220>
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<223> /note="Description of Artificial DNA Sequence: sequence of table 3"

<400> 370
 cgctagcgct ggcggcgggc ggcggcgggc cggcgggcggc ggcgcagggga 50

<210> 371
 <211> 52
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<220>
 <221> source

<223> /note="Description of Artificial DNA Sequence: sequence of table 3"

<220>
 <223> n = gcc gcc gcc or deleted

<400> 371
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<210> 372
 <211> 52
 <212> DNA
 <213> Artificial DNA Sequence

<220>
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<223> /note="Description of Artificial DNA Sequence: sequence of table 3"

<220>
 <223> n = ggc ggc ggc or deleted

<400> 372
 CGCTAGCGCT nGGCGGCGGC GGC GGCGGCG GCGGCGGCGG CGGCGCAGG GA 52

<210> 373
 <211> 47
 <212> DNA
 <213> Artificial DNA Sequence

<220>
 <221> source

<223> /note="Description of Artificial DNA Sequence: sequence of table 3"

<400> 373
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<210> 374
 <211> 47
 <212> DNA
 <213> Artificial DNA Sequence

<220>
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<223> /note="Description of Artificial DNA Sequence: sequence of table 3"

<400> 374
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<210> 375
 <211> 48
 <212> DNA
 <213> Artificial DNA Sequence

<220>
 <221> source

<223> /note="Description of Artificial DNA Sequence: sequence of table 3"

<220>
 <223> n = gcc gcc gcc gcc or deleted

<400> 375
 TCCCTGCGCC GCCGCCGCCG CCGCCGCCGC CGCCGCCnAG CGCTAGCG 48

<210> 376
 <211> 48
 <212> DNA
 <213> Artificial DNA Sequence

<220>
 <221> source

<223> /note="Description of Artificial DNA Sequence: sequence of table 3"

<220>
 <223> n = ggc ggc ggc ggc or deleted

<400> 376
 CGCTAGCGCT nGGCGGCGGC GGC GGCGGCG GCGGCGGCGG CGCAGGGA 48

<210> 377
 <211> 38
 <212> DNA
 <213> Artificial DNA Sequence

<220>

<221> source

<223> /note="Description of Artificial DNA Sequence: sequence of table 3"

<400> 377
tccctgcgcc gccgccgccc ccgccgccag cgctagcg 38

<210> 378
<211> 38
<212> DNA
<213> Artificial DNA Sequence

<220>
<221> source

<223> /note="Description of Artificial DNA Sequence: sequence of table 3"

<400> 378
cgctagcgct ggccggcgccg gcggcgccgg cgcagggg 38

<210> 379
<211> 39
<212> DNA
<213> Artificial DNA Sequence

<220>
<221> source

<223> /note="Description of Artificial DNA Sequence: sequence of table 3"

<220>
<223> n = gcc gcc gcc gcc gcc gcc gcc or deleted

<400> 379
TCCCTGCGCC GCCGCCGCCG CCGCCGCCnA GCGCTAGCG 39

<210> 380
<211> 39
<212> DNA
<213> Artificial DNA Sequence

<220>
<221> source

<223> /note="Description of Artificial DNA Sequence: sequence of table 3"

<220>
<223> n = ggc ggc ggc ggc ggc ggc ggc or deleted

<400> 380
CGCTAGCGCT nGGCGGCGGC GCGGCGGCG GCGCAGGGA 39

<210> 381
<211> 20

<212> DNA
 <213> Artificial DNA Sequence

 <220>
 <221> source

 <223> /note="Description of Artificial DNA Sequence: sequence of
 table 3"

 <400> 381
 tcaagcagag agagagtgtt 20

<210> 382
 <211> 20
 <212> DNA
 <213> Artificial DNA Sequence

 <220>
 <221> source

 <223> /note="Description of Artificial DNA Sequence: sequence of
 table 3"

 <400> 382
 aacactctct ctctgcttga 20

<210> 383
 <211> 21
 <212> DNA
 <213> Artificial DNA Sequence

 <220>
 <221> source

 <223> /note="Description of Artificial DNA Sequence: sequence of
 table 3"

 <220>
 <223> n = AA or deleted

 <400> 383
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<210> 384
 <211> 21
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 <213> Artificial DNA Sequence

 <220>
 <221> source

 <223> /note="Description of Artificial DNA Sequence: sequence of
 table 3"

 <220>
 <223> n = tt or deleted

 <400> 384
 aacactctct nctctgcttg a 21

<210> 385
<211> 21
<212> DNA
<213> Artificial DNA Sequence

<220>
<221> source

<223> /note="Description of Artificial DNA Sequence: sequence of table 3"

<400> 385
ctggggcctt tgtgtcattc a

21

<210> 386
<211> 21
<212> DNA
<213> Artificial DNA Sequence

<220>
<221> source

<223> /note="Description of Artificial DNA Sequence: sequence of table 3"

<400> 386
tgaatgacac aaaggcccca g

21

<210> 387
<211> 21
<212> DNA
<213> Artificial DNA Sequence

<220>
<221> source

<223> /note="Description of Artificial DNA Sequence: sequence of table 3"

<220>
<223> y = c or t

<400> 387
ctggggcctt ygtgtcattc a

21

<210> 388
<211> 21
<212> DNA
<213> Artificial DNA Sequence

<220>
<221> source

<223> /note="Description of Artificial DNA Sequence: sequence of table 3"

<220>
<223> r = g or a

<400> 388
tgaatgacac raaggcccca g 21

<210> 389
<211> 21
<212> DNA
<213> Artificial DNA Sequence

<220>
<221> source

<223> /note="Description of Artificial DNA Sequence: sequence of
table 3"

<400> 389
acacaaggag atgaagccgt t 21

<210> 390
<211> 21
<212> DNA
<213> Artificial DNA Sequence

<220>
<221> source

<223> /note="Description of Artificial DNA Sequence: sequence of
table 3"

<400> 390
aacggcttca tctccttg t 21

<210> 391
<211> 21
<212> DNA
<213> Artificial DNA Sequence

<220>
<221> source

<223> /note="Description of Artificial DNA Sequence: sequence of
table 3"

<220>
<223> r = g or a

<400> 391
acacaaggag rtgaagccgt t 21

<210> 392
<211> 21
<212> DNA
<213> Artificial DNA Sequence

<220>
<221> source

<223> /note="Description of Artificial DNA Sequence: sequence of table 3"

<220>

<223> y = c or t

<400> 392

aacggcttca yctccttg t

21

<210> 393

<211> 21

<212> DNA

<213> Artificial DNA Sequence

<220>

<221> source

<223> /note="Description of Artificial DNA Sequence: sequence of table 3"

<400> 393

caggccccc cagacctcag g

21

<210> 394

<211> 21

<212> DNA

<213> Artificial DNA Sequence

<220>

<221> source

<223> /note="Description of Artificial DNA Sequence: sequence of table 3"

<400> 394

cctgaggtct ggggggcct g

21

<210> 395

<211> 21

<212> DNA

<213> Artificial DNA Sequence

<220>

<221> source

<223> /note="Description of Artificial DNA Sequence: sequence of table 3"

<220>

<223> n = c or deleted

<400> 395

caggccccc nagacctcag g

21

<210> 396

<211> 21

<212> DNA

<213> Artificial DNA Sequence

<220>

<221> source

<223> /note="Description of Artificial DNA Sequence: sequence of table 3"

<220>

<223> n = g or deleted

<400> 396

cctgaggtct nggggggcct g

21

<210> 397

<211> 21

<212> DNA

<213> Artificial DNA Sequence

<220>

<221> source

<223> /note="Description of Artificial DNA Sequence: sequence of table 3"

<400> 397

tacagttttg attttgttga g

21

<210> 398

<211> 21

<212> DNA

<213> Artificial DNA Sequence

<220>

<221> source

<223> /note="Description of Artificial DNA Sequence: sequence of table 3"

<400> 398

ctcaacaaaa tcaaaactgt a

21

<210> 399

<211> 21

<212> DNA

<213> Artificial DNA Sequence

<220>

<221> source

<223> /note="Description of Artificial DNA Sequence: sequence of table 3"

<220>

<223> r = g or a

<400> 399

tacagttttg rttttgttga g

21

<210> 400
 <211> 21
 <212> DNA
 <213> Artificial DNA Sequence

<220>
 <221> source

<223> /note="Description of Artificial DNA Sequence: sequence of table 3"

<220>
 <223> y = c or t

<400> 400
 ctcaacaaaa ycaaaactgt a

21

<210> 401
 <211> 11
 <212> PRT
 <213> Artificial Protein Sequence

<220>
 <221> source

<223> /note="Description of Artificial Protein Sequence: sequence of table 4"

<400> 401
 Thr Pro Leu Asn Lys Ile Lys Thr Ala Leu Gly
 1 5 10

<210> 402
 <211> 11
 <212> PRT
 <213> Artificial Protein Sequence

<220>
 <221> source

<223> /note="Description of Artificial Protein Sequence: sequence of table 4"

<220>
 <223> Xaa = T or I

<400> 402
 Thr Pro Leu Asn Lys Xaa Lys Thr Ala Leu Gly
 1 5 10

<210> 403
 <211> 11
 <212> PRT
 <213> Artificial Protein Sequence

<220>
 <221> source

<223> /note="Description of Artificial Protein Sequence: sequence of table 4"

<400> 403

Cys Asn His Val Ser Thr Leu Ala Ser Asn Tyr
1 5 10

<210> 404

<211> 11

<212> PRT

<213> Artificial Protein Sequence

<220>

<221> source

<223> /note="Description of Artificial Protein Sequence: sequence of table 4"

<220>

<223> Xaa = A or T

<400> 404

Cys Asn His Val Ser Xaa Leu Ala Ser Asn Tyr
1 5 10

<210> 405

<211> 15

<212> DNA

<213> Artificial DNA Sequence

<220>

<221> source

<223> note="Description of Artificial DNA Sequence: sequence of table 3 P1 mryp522"

<400> 405

cccgccgccc ggggtg

15